Index of Claims



Application/Control No.

10/645,574 Examiner

Carolyn T. Blake

Applicant(s)/Patent under Reexamination

MCNULTY, EDWARD
Art Unit

3724

| <b>√</b> | Rejected | _ | (Through numeral)<br>Cancelled | ľ | N | Non-Elected  | A | Appeal   |
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| II       | Allowed  | + | Restricted                     |   | ı | Interference | 0 | Objected |

| Cla  | im       | Date     |            |          |                 |          |  |  |                 | Clair    | n_       | Date |                  |          |                    |   |          |              | Cla                     | Date               |  |   |           |            |           |          |          |          |          |          |          |          |          |
|--|----------|----------|------------|----------|-----------------|----------|--|--|-----------------|----------|----------|------|------------------|----------|--------------------|---|----------|--------------|-------------------------|--------------------|--|---|-----------|------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
|  | =        | 9        | LO I       |          |                 |          |  |  |                 |          |          |      | =                |          |                    |   |          | T            | Ĭ                       |                    |  |   |           | =          |           |          |          |          |          |          |          |          |          |
| Final  | Original | 12/16/05 | 3/16/05    | 8/4/05   |                 |          |  |  |                 |          | Final    | 1    | Original         | - 1      |                    |   |          |              |                         |                    |  |   | Final     | Original   |           | - 1      |          | - 1      |          |          |          |          | -        |
| ፲  | Ų.       | 121      | 3/1        | 8/7      |                 |          |  |  | H               |          | iũ       | :    | جّا              | -        |                    |   |          |              |                         |                    |  |   | i         | ,<br>Ž     |           | - 1      |          | -        |          |          |          |          |          |
|  |          | _        |            |          |                 | <u> </u> | _  | <u> </u>   | Ш               | _        |          | i_   |                  | $\dashv$ | $\downarrow$       | 4   | $\perp$  | 4            | $\perp$                 | $\downarrow$       | _  |   |           |            | $\dashv$  | 4        | _        | _        | $\Box$   | _        | _        |          | Ц        |
|  | .1       | +        | <u> </u>   |          | Ш               | <u> </u> | <u> </u>   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              |                 | _        |          |      | 51               | $\perp$  | _                  | _   | 4        | $\perp$      | $\perp$                 | $\downarrow$       | <u> </u>   |   | $\vdash$  | 101        |           | _        | _        | _        | _        | _        | _        | _        |          |
| $\vdash$   | 2        | +        | ٧          | √,       |                 |          | _  | ļ  | Ш               | _        | _        |      | 52               | _        | _                  | _   | 4.       | $\downarrow$ | _                       | -                  | ļ  | ļ | $\square$ | 102        |           | _        | 4        |          |          |          | _        | _        | _        |
| <b> </b>   | 3        | +        | <b>√</b>   | <b>√</b> | Ш               |          | _  | $\vdash$   | $\sqcup$        | -        | _        |      | 53               | $\perp$  | _                  | 4   | 4        | +            | _                       | +-                 | ╀  | ļ | -         | 103        | $\dashv$  | $\dashv$ |          | _        | $\dashv$ | _        | _        | -        | _        |
| $\vdash$   | 4        | +        | 1          | 1        | Н               |          | -  | ├_   | Н               | _        |          |      | 54               | -        | _                  | 4   | 4        | -            | +                       | +                  | ╄  | ł | $\vdash$  | 104        | $\dashv$  |          | -        |          | $\dashv$ | -        | $\dashv$ | _        | 4        |
| $\longrightarrow$                                | 5 6      | +        | 1          | 1        | Н               | _        | -  | ⊢  | Н               | _        | -        |      | 55               | $\dashv$ | _                  | +   | +        | +            | +                       | +                  | $\vdash$   | ł | $\vdash$  | 105        | $\dashv$  | $\dashv$ |          | -        | $\dashv$ | -        | -        | -        |          |
| -  | 6<br>7   | +        | <b>√</b>   | 1        | Н               |          | ⊢  | ┢  | Н               | $\dashv$ | -        | +    | 56<br>57         | $\dashv$ | +                  | +   | +        | +            | +                       | +                  | ┿  | ł |           | 106<br>107 | $\dashv$  | +        |          |          | $\dashv$ |          | -        | $\dashv$ | $\dashv$ |
| -  | 8        | +        | <b>V</b> √ | √<br>√   | Н               | -        | ├-   |  | $\vdash$        |          |          |      | 5 <i>1</i><br>58 | -        | -                  | +   | +        | +            | +                       | +                  | -  | 1 | -         | 107        | $\dashv$  | $\dashv$ | -        | $\dashv$ | $\dashv$ |          | $\dashv$ | -        | 一        |
| -  | 9        | +        | √ √        | √        | Н               | $\vdash$ | ┝  | H  | $\vdash$        | $\dashv$ | -        |      | 59               | $\dashv$ | +                  | +   | +        | +            | +                       | +                  | -  |   | -         | 109        | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ |          |          | $\dashv$ | $\dashv$ | ᅱ        |
| <del>     </del>                                 | 10       | +        | 1          | ō        | Н               |          | ⊢  | -  | $\vdash$        | $\dashv$ |          | -    | 60               | +        | $\dashv$           | $\dashv$  | +        | $\dashv$     | +                       | +                  | +  | 1 | $\vdash$  | 110        | -         | +        | $\dashv$ | ╌┤       | $\dashv$ | $\dashv$ | ┪        | $\dashv$ | $\dashv$ |
|  | 11       | +        | 1          | 0        | -               | -        | -  | -  | Н               | $\dashv$ |          |      | 61               | $\dashv$ | +                  | $\dashv$  | +        | ┰            | ╁                       | +                  | $\vdash$   | 1 |           | 111        | $\dashv$  | ┰        | $\dashv$ | ᅱ        | $\dashv$ | ᆉ        | 一        | +        | ᅥ        |
| <del>                                     </del> | 12       | +        | 1          | 0        | Н               | $\vdash$ | ┢  | $\vdash$   | $\vdash \vdash$ | $\dashv$ |          | +    | 62               | $\dashv$ | +                  | $\dashv$  | +        | +            | +                       | +                  | $\vdash$   | 1 | $\vdash$  | 112        | $\dashv$  | $\dashv$ | +        | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |
| <del>  -  </del>                                 | 13       | +        | 1          | Ť        | $\vdash$        | $\vdash$ | Н  |  | Н               | $\dashv$ | -        |      | 63               | 十        | +                  | $\dashv$  | $\dashv$ | $\dagger$    | +                       | $\dagger$          |  |   | $\vdash$  | 113        | $\forall$ | $\dashv$ | +        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$ |
| $\vdash$   | 14       | +        | Ė          |          | Н               | -        | $\vdash$   |  | $\vdash$        | $\dashv$ |          |      | 64               | $\dashv$ | $\dashv$           | $\dashv$  | 十        | 十            | +                       | +-                 |  |   |           | 114        |           | $\dashv$ | $\dashv$ | $\dashv$ |          |          |          | $\dashv$ | $\dashv$ |
|  | 15       | +        | $\vdash$   |          | Н               |          | <del>                                     </del> | $\vdash$   | $\vdash$        | $\dashv$ |          | +    | 65               | $\dashv$ | 十                  | 十   | +        | +            | 十                       | T                  | $\vdash$   | İ |           | 115        | -         | $\dashv$ | $\dashv$ | 一        | $\dashv$ |          |          | $\dashv$ | $\dashv$ |
| 厂  | 16       | ÷        |            |          | П               |          | Г  | Г  | П               | ᅦ        |          |      | 66               | $\dashv$ | 十                  | $\dashv$  | ┪        | 十            | 1                       | $\top$             | T  | 1 |           | 116        | $\Box$    | 寸        | 7        | $\neg$   | $\dashv$ | 寸        | 一        | ヿ        | $\dashv$ |
|  | 17       | ÷        |            |          | М               |          | Г  | П  | П               | $\dashv$ |          |      | 67               | $\dashv$ | 十                  | 寸   | $\top$   | T            | T                       | T                  |  | 1 |           | 117        | $\sqcap$  | $\dashv$ | ヿ        | 一        | $\dashv$ | 一        | $\neg$   | $\dashv$ | $\dashv$ |
|  | 18       | +        |            |          |                 |          |  |  |                 |          |          |      | 68               |          | $\neg$             | $\dashv$  | $\neg$   | T            |                         | T                  |  | 1 |           | 118        |           |          |          | $\neg$   | コ        | T        |          |          | $\neg$   |
|  | 19       | +        |            |          |                 |          |  |  |                 |          |          |      | 69               |          | $\top$             |   | $\neg$   | 1            |                         | 1                  |  | ĺ |           | 119        |           |          |          | $\neg$   | ヿ        |          |          |          |          |
|  | 20       | +        |            |          |                 |          |  |  |                 |          |          |      | 70               |          |                    |   |          |              |                         |                    |  | } |           | 120        |           |          |          |          |          |          |          |          |          |
|  | 21       | +        |            |          |                 |          |  |  |                 |          |          |      | 71               |          |                    |   |          |              |                         |                    |  | } |           | 121        |           |          |          |          |          |          |          |          |          |
|  | 22       |          |            | =        |                 |          |  |  |                 |          |          |      | 72               |          |                    |   |          |              |                         |                    |  |   |           | 122        |           |          |          |          |          |          |          |          |          |
|  | 23       |          |            | =        |                 |          |  |  |                 |          |          |      | 73               |          |                    |   |          |              |                         |                    |  |   |           | 123        |           |          |          |          |          |          |          |          |          |
|  | 24       |          |            |          |                 |          |  |  | Щ               |          |          |      | 74               |          |                    | _   | $\perp$  | ┵            | $\perp$                 |                    |  |   |           | 124        |           |          |          | [        | $\Box$   |          |          |          | _        |
|  | 25       |          |            |          |                 |          | Ŀ  |  |                 |          | ļ        |      | 75               |          |                    |   |          |              |                         |                    | ┖  |   |           | 125        |           |          | _        |          | $\Box$   | _        | _        | _        | ᆜ        |
|  | 26       |          | <u></u>    |          | Ш               |          |  |  |                 | _        |          |      | 76               | _        | $\perp$            | 4   | 4        | _            | 4                       | _                  | <u> </u>   |   |           | 126        |           |          |          | _        | _        | $\perp$  | _        | _        | _        |
| $\sqcup$   | 27       |          |            |          |                 |          |  |  |                 | _        | <u> </u> |      | 77               |          | _                  | 4   | _        | 4            |                         | 1_                 | -  |   | Щ         | 127        |           | _        | _        |          | _        | _        | _        | _        | _        |
| $\vdash$   | 28       |          |            |          | Щ               |          | <u> </u>   | Щ  |                 | _        | <u> </u> |      | 78               | _        | 4                  | 4   | _        | $\bot$       | 4                       | $\perp$            | -  | ļ | ļ         | 128        | _         | _        | _        |          |          | _        | _        |          | 4        |
| $\vdash$   | 29       |          |            |          | Н               |          | <u> </u>   |  | -               | _        | <u> </u> |      | 79               | _        | +                  | 4   | 4        | +            | -                       | ┿                  | ┼  |   |           | 129        | -         | 4        |          |          |          | _        | -        | 4        | 4        |
|  | 30       |          | _          |          | _               |          | _  |  | -               | _        | -        |      | 80               | _        |                    | -   | +        | -            | - -                     | 4                  | ⊢  |   | <u> </u>  | 130        | $\dashv$  | -        | -        |          | $\dashv$ | -        | -        | $\dashv$ |          |
| <del>                                     </del> | 31       |          |            |          | $\vdash$        | $\vdash$ | <u> </u>   | $\vdash$   | $\vdash$        |          |          |      | 81               | -        | +                  | +   | +        | +            | +                       | +                  | $\vdash$   |   | -         | 131        | $\dashv$  | -        | $\dashv$ | -        |          | -        | -        | $\dashv$ | $\dashv$ |
| ┝─┼  | 32       | _        | $\vdash$   |          | $\vdash \vdash$ | $\vdash$ | ├-   | -  | ┝┤              | $\dashv$ |          |      | 82               | -        | +                  | +   | +        | +            | +-                      | +-                 | +-   | - |           | 132        | -         | $\dashv$ | $\dashv$ |          | $\dashv$ | -        |          | $\dashv$ | $\dashv$ |
| $\vdash$   | 33<br>34 | _        | $\vdash$   | _        | $\vdash$        | $\vdash$ | $\vdash$   | H  | $\vdash$        | $\dashv$ |          |      | 83<br>84         | +        | +                  | +   | +        | +            | +                       | +                  | $\vdash$   |   | $\vdash$  | 133<br>134 | $\dashv$  | +        | $\dashv$ |
| ┝─┤  | 35       |          | $\vdash$   |          | Н               | Н        | $\vdash$   | H  | $\vdash \vdash$ | $\dashv$ | -        |      | 85               | +        | +                  | +   | +        | +            | +                       | +                  | +-   |   | $\vdash$  | 135        | $\dashv$  | +        | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |
| $\vdash \vdash$                                  | 36       | _        | $\vdash$   | _        | Н               | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$        | $\dashv$ | $\vdash$ |      | 86               | $\dashv$ | +                  | +   | +        | +            | +-                      | +                  | +  |   | $\vdash$  | 136        | $\dashv$  | $\dashv$ | $\dashv$ |          | -        |          |          | -+       | $\dashv$ |
| ┝  | 37       | _        | $\vdash$   |          | $\vdash$        | $\vdash$ | ┢  | $\vdash$   | $\vdash \vdash$ | $\dashv$ | $\vdash$ |      | 87               | -        | +                  | +   | +        | +            | +                       | +                  | +-   |   | $\vdash$  | 137        | $\dashv$  | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |
|  | 38       |          | $\vdash$   |          | $\vdash$        | Н        |  |  |                 | $\dashv$ | -        |      | 88               | $\dashv$ | +                  | +   | +        | +            | +                       | +                  | $\vdash$   | 1 | $\vdash$  | 138        | -         | +        | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$ |
|  | 39       |          |            |          | H               |          | <u> </u>   |  | H               | $\dashv$ | -        |      | 89               | T        | $\top$             | $^{\dagger}$  | $\top$   | $\dagger$    | $\top$                  | T                  | 1  | 1 |           | 139        | $\vdash$  | 寸        | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | 寸        | $\dashv$ |
| $\vdash$   | 40       |          | Н          |          | Н               |          |  | П  | Н               | $\dashv$ |          |      | 90               | $\dashv$ | $\top$             | $\top$  | $\top$   | +            | $\top$                  | +                  | +-   | ĺ |           | 140        | $\vdash$  | $\dashv$ | 7        | ᅥ        | $\dashv$ | 一        |          | 一        | $\dashv$ |
| $\vdash$   | 41       |          |            | _        | Н               |          |  | <del>                                     </del> | Н               | $\dashv$ |          | _    | 91               | $\dashv$ | $\top$             | 十   | $\top$   | $^{\dagger}$ | +-                      | $\top$             | $\top$   | 1 |           | 141        | $\forall$ | $\dashv$ | $\dashv$ | 一        | $\dashv$ | 寸        | 一        | 寸        | $\dashv$ |
|  | 42       |          |            |          | П               |          | 1  |  |                 | $\neg$   |          |      | 92               |          | 十                  | $\top$  | $\top$   | T            | $\top$                  | T                  |  | 1 |           | 142        |           | 寸        |          |          | $\neg$   |          | $\neg$   |          | $\dashv$ |
|  | 43       |          |            |          | П               |          |  |  | П               | $\neg$   |          |      | 93               | 寸        | 十                  | 寸   | 十        | 1            | 1                       | T                  |  | 1 |           | 143        | $\sqcap$  | $\neg$   | 7        |          | $\neg$   |          | $\dashv$ | 寸        | $\neg$   |
|  | 44       |          |            |          |                 |          |  |  |                 | $\Box$   |          | 7    | 94               |          |                    | _†  |          | T            |                         | $\perp$            |  | ] |           | 144        |           |          |          |          |          |          | 丁        | $\Box$   | $\Box$   |
|  | 45       |          |            |          |                 |          |  |  |                 |          |          |      | 95               |          |                    |   |          | I            |                         | Ī                  |  |   |           | 145        |           |          |          |          |          |          |          | 丁        |          |
|  | 46       |          |            |          |                 |          |  |  |                 |          |          |      | 96               |          |                    | $\Box$  |          | I            | $oldsymbol{\mathbb{T}}$ | Ι                  |  |   |           | 146        |           |          |          |          |          |          |          |          |          |
|  | 47       |          |            |          |                 |          |  |  |                 |          |          |      | 97               | $\Box$   | $\Box$             |   |          | Ι            |                         |                    |  |   |           | 147        |           | $\Box$   |          |          |          |          |          | $\Box$   | $\Box$   |
|  | 48       |          |            |          |                 |          |  |  | oxdot           |          |          |      | 98               |          | $oldsymbol{\perp}$ | $oldsymbol{ol}}}}}}}}}}}}}}}$ |          | I            |                         |                    | oxdot  |   |           | 148        |           |          |          |          |          |          |          | $\Box$   |          |
| $oxed{oxed}$                                     | 49       |          | Ш          |          | Ш               | $\Box$   | <u> </u>   | $\Box$   | Ш               | $\Box$   |          |      | 99               | [        |                    | $\perp$   |          |              | _                       | $oldsymbol{\perp}$ | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ |   |           | 149        | Ш         | _[       | $\Box$   | ]        | ╝        |          | $\bot$   | [        |          |
|  | 50       |          |            |          |                 |          |  |  | Ш               |          |          | _ 1  | 00               |          | $\perp$            |   |          |              |                         |                    |  | J |           | 150        |           |          |          |          |          |          |          |          | ╝        |